STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTOL BOARD
CENTRAL COAST REGION

MONITORING AND REPORTING PROGRAM NO. 01-135
GENERAL NPDES PERMIT NO. CAG993002
For
DISCHARGES OF HIGHLY TREATED GROUNDWATER TO SURFACE WATERS

Discharges regulated under General NPDES Permit No. CAG993002 shall be subject to the following requirements unless such requirements are modified or waived by the Executive Officer. **Additional requirements may be added by the Executive Officer, if needed to adequately assure compliance with the permit. This Monitoring and Reporting Program may be revised as necessary by the Executive Officer.**

TREATMENT SYSTEM MONITORING

TREATMENT SYSTEM DEFINED

The groundwater extraction and treatment system consists of [The treatment system and sampling location descriptions submitted with the Notice of Intent will be included in the Monitoring and Reporting Program under the sections titled, *'Treatment System Defined'* and *'Treatment System Monitoring Frequency & Sampling Protocols'*].

TREATMENT SYSTEM MONITORING FREQUENCY & SAMPLING PROTOCOLS

The volume and flow rate of water extracted from the well(s) and discharged to the storm drain system or surface water shall be measured continuously during treatment system operation. A treatment system operational log shall be maintained documenting periods of system operation, shut-down, and maintenance.

The treatment system shall be sampled weekly during the first month of operation and monthly thereafter. Representative samples shall be collected from the extraction well(s) or a designated sampling port prior to the treatment system, [The treatment system and sampling location descriptions submitted with the Notice of Intent will be included in the Monitoring and Reporting Program under the sections titled, *'Treatment System Defined'* and *'Treatment System Monitoring Frequency & Sampling Protocols'*] and downstream of the final carbon vessel to evaluate treatment system efficiency and monitor for contaminant breakthrough. Representative samples collected from between and after the carbon vessels shall be submitted under a two-week turn around time to evaluate for potential treatment system breakthrough, or for replacement of carbon media and rotation of carbon vessels. Sampling frequency may be modified based on actual system performance and the written concurrence of the Executive Officer.

All groundwater extraction, treatment and discharge system samples shall be analyzed for all applicable groundwater pollutants specific to the discharge. All samples shall be collected, preserved, and analyzed in accordance with the most recent edition of *Test Methods for Evaluating Solid Wastes* (SW-846, United States Environmental Protection Agency). Samples shall be submitted under chain of custody and analyzed by a California Department of Health Services certified laboratory.

At a minimum, sampling and analysis of the groundwater extraction, treatment, and discharge system for cleanup of petroleum hydrocarbon related spills shall be conducted in accordance with the following analytical methods:

Compound	Units	Sample Type	EPA Method	Practical Quantification Limit (µg/l)
Benzene	micrograms/liter (µg/l)	Grab	8020/8260	0.5
Toluene	µg/l	Grab	8020/8260	0.5
Ethylbenzene	µg/l	Grab	8020/8260	0.5
Xylenes	µg/l	Grab	8020/8260	0.5
TPH	µg/l	Grab	8015	50.0
MTBE	µg/l	Grab	8020/8260	1.0
TBA	µg/l	Grab	8020/8260	10.0

The minimum reporting concentration of the above-listed analytes shall not exceed respective Maximum Contaminant Levels (MCLs) or applicable EPA or other regulatory standards. Requests for changes in monitoring frequency and analyte analysis shall be submitted in writing for Regional Board staff review and Executive Officer approval.

OR (as applicable to specific groundwater pollutants)

At a minimum, sampling and analysis of the groundwater extraction, treatment and discharge system for the cleanup of volatile organic compound related spills shall be conducted in accordance with the following analytical methods:

Compound	Units	Sample Type	EPA Method	Practical Quantification Limit (µg/l)
tetrachloroethene	micrograms/liter (µg/l)	Grab	8260/8021*	0.5
trichloroethene	µg/l	Grab	8260/8021*	0.5
1,2-dichloroethane	µg/l	Grab	8260/8021*	0.5
vinyl chloride	µg/l	Grab	8260/8021*	0.5
1,1 dichloroethene	µg/l	Grab	8260/8021*	0.5
Cis 1,2-dicholorethene	µg/l	Grab	8260/8021*	0.5
Trans 1,2 dichloroethene	µg/l	Grab	8260/8021*	0.5
1,1,1 trichloroethane	µg/l	Grab	8260/8021*	0.5

* EPA Method 624 is an acceptable alternate method

The minimum reporting concentration of the above-listed analytes shall not exceed respective Maximum Contaminant Levels (MCLs) or applicable EPA or other regulatory standards. Requests for changes in monitoring frequency and analyte analysis shall be submitted in writing for Regional Board staff review and Executive Officer approval.

DISCHARGE MONITORING

Representative samples of the discharge shall be collected and analyzed as follows:

Constituents	Units	Type of Sample	Sampling frequency
pH	pH Units	Grab	Annually in September
Total Suspended solids	mg/l	Grab	Annually in September
Total Dissolved Solids	mg/l	Grab	Annually in September
Temperature	^{0}F	Grab	Annually in September
Turbidity	NTU	Grab	Annually in September
Dissolved Oxygen	mg/l	Grab	Annually in September
Acute Toxicity	TUa	Grab	Annually in September

DISCHARGE PROHIBITIONS

The discharge must be in compliance with the provisions of the General Permit. Item B of the discharge prohibitions stated in the General Permit requires "The discharge shall not contain concentrations of pollutants in excess of applicable water quality objectives". Applicable water quality objectives are as follows:

Petroleum Hydrocarbon Constituent	**Concentration**	**Units**
Benzene	1.0[1]	Micrograms/liter (µg/l)
Ethylbenzene	700[1]	µg/l
Toluene	150[1]	µg/l
Xylenes	1,750[1]	µg/l
TPH	1,000[2]	µg/l
MTBE	5.0[3]	µg/l
TBA	12.0[4]	µg/l

[1] California Primary Maximum Contaminant Level (MCL)
[2] Central Coast Regional Board Water Quality Objective
[3] California Secondary MCL (Taste & Odor Threshold)
[4] California Drinking Water Action Level (Dept. of Health Services)

OR (as applicable to specific groundwater pollutants)

Volatile Organic Compounds	**Concentration**	**Units**
tetrachloroethene	5 .0[1]	Micrograms/liter (µg/l)
trichloroethene	5.0[1]	µg/l
1,2-dichloroethane	0.5[1]	µg/l
vinyl chloride	0.5[1]	µg/l
1,1 dichloroethene	6.0[1]	µg/l
cis1,2-dicholorethene	6.0[1]	µg/l
trans1,2 dichloroethene	10.0[1]	µg/l
1,1,1 tricholorethane	200.0[1]	µg/l

[1] California Primary Maximum Contaminant Level (MCL)
[2] Central Coast Regional Board Water Quality Objective

[3] California Secondary MCL (Taste & Odor Threshold)
[4] California Drinking Water Action Level (Dept. of Health Services)

RECEIVING WATER MONITORING

In addition to the monitoring requirements stated above, a log shall be kept of the receiving water conditions throughout the reach bounded by Stations RW-1 (100 feet upstream of the discharge point) and RW-2 (100 feet downstream of the discharge point). At a minimum of quarterly, the discharger shall record the visual observations made of the receiving water for the presence or absence of:

a. Floating or suspended matter in the water
b. Discoloration of the water
c. Bottom deposits
d. Visible films, sheens or coatings
e. Fungi, slimes, or objectionable growths
f. Potential nuisance conditions

REPORTING

Quarterly reports shall be submitted on the **30th day of the month** following each calendar quarter, i.e. **January, April, July, and October**. The quarterly report shall contain at a minimum results from the monitoring specified above and the treatment system operational log. A letter signed in accordance with Standard Provision 13, certifying compliance with this General Permit shall be submitted with the quarterly report. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, constituents, and concentrations are readily discernible. The data shall be summarized in such a manner to illustrate clearly whether the discharge complies with waste discharge requirements.

In addition to the above, the following reporting elements are required:

- A treatment system operational summary discussing extraction and discharge water volumes and flow rates, quarterly and cumulative contaminant removal estimates, system operation and shut-down periods, maintenance, and any non-routine operational changes made to the groundwater extraction, treatment and discharge system during the reporting period;
- A detailed discussion of treatment system performance, including recommended modifications;
- A site map showing extraction wells, monitoring wells, and the storm drain, or surface water, discharge location; and
- A treatment system diagram/schematic showing system configuration and associated piping, flow path, and sampling locations.

If the Discharger monitors any pollutant at the locations designated herein more frequently than is required by this Monitoring and Reporting Program, the results of such monitoring shall be included in the monitoring reports.

These reports are required pursuant to Section 13267 of the California Water Code. Pursuant to Section 13268 of the Water Code, a violation of a request made pursuant to Section 13267 may subject you to civil liability assessment of up to $1,000 per day.

Ordered By_____
Executive Officer

_____
Date